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LeaderBoard & Prev Day Solution

DAILY CHALLENGE

ProgramID- 6334



SkillRack

Count of Common Integers

The program must accept an integer matrix of size **NxN** as input. The program must print the count of common integers between top right and bottom left submatrices of the given matrix.

Boundary Condition(s):

 $2 \leq N \leq 50$

Input Format:

The first line contains the value of N.

The next N lines contain N integers each separated by space.

Output Format:

The first line contains the count of common integers between top right and bottom left of the matrix.

Example Input/Output 1:

Input:

```
5
1 2 3 4 2
6 7 8 9 0
1 2 3 4 5
6 7 8 9 0
9 2 3 4 5
```

Output:

5

Explanation:

The top right submatrix elements of the given matrix are 3 4 2 8 9 0 3 4 5.

The bottom left submatrix elements of the given matrix are 1 2 3 6 7 8 9 2 3.

The common integers between top right and bottom left submatrices of the given matrix are 2 3 3 8 and 9.

Hence, the count 5 is printed as the output.

Example Input/Output 2:

Input:

4

12 23 34 45

23 34 12 56

34 45 56 67

12 23 34 45

Output:

3

Max Execution Time Limit: 5000 millisecs



Ambiance



Java (12.0)



Reset

```
1 import java.util.*;
2 public class Hello {
3     public static void main(String[] args) {
4         Scanner sc=new Scanner(System.in);
5         int n=sc.nextInt();
6         int[][] arr=new int[n][n];
7
8         for(int i=0;i<n;i++){
9             for(int j=0;j<n;j++){
10                 arr[i][j]=sc.nextInt();
11             }
12         }
13         int a=n%2==0?n/2:(n/2)+1;
14
15         int[] t=new int[a*a];
16         int[] b=new int[a*a];
17         int k=0,h=0;
18         for(int i=0;i<a;i++){
19             for(int j=n-a;j<n;j++){
20                 t[k++]=arr[i][j];
21             }
22         }
```

```
22     }
23     for(int i=n-a;i<n;i++){
24         for(int j=0;j<a;j++){
25             b[h++]=arr[i][j];
26         }
27     }
28     int c=0;
29
30     for(int i=0;i<a*a;i++){
31         for(int j=0;j<a*a;j++){
32
33             if(t[i]==b[j]){
34                 c++;
35                 //System.out.print(b[j]+" ");
36                 b[j]=-1;
37                 t[i]=-1;
38                 //System.out.println(c+" ");
39
40                 break;
41             }
42
43         }
44
45     }
46
47     System.out.println(c);
48 }
49
50
51 }
```

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Code did not pass the execution

Input:

```
5
1 2 3 4 2
6 7 8 9 0
1 2 3 4 5
6 7 8 9 0
9 2 3 4 5
```

Expected Output:

```
5
```

Your Program Output:

**Exception in thread "main" java.lang.ArrayIndexOutOfBoundsException
: Index 9 out of bounds for length 9
at Hello.main(Hello.java:25)**

Save

Run

☐

Run with a custom test case (Input/Output)